

# Air Navigation Pro

## User's Guide

### Air Navigation

Real-time navigation system with moving map



ANDROID

for more info: [www.xample.aero](http://www.xample.aero)

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## Contents

(jump to page by clicking)

### 1. Introduction

- 1.1. About this document
- 1.2. Minimum requirements
- 1.3. Disclaimer

### 2. User interface

- 2.1. Air Navigation Pro on a Tablet
- 2.2. Air Navigation Pro on a mobile
- 2.3. Buttons in the toolbar

### 3. Setup

- 3.1. Getting started

### 4. Installation

- 4.1. Maps and charts
- 4.2. The Map Store
- 4.3. Install products in other devices
- 4.4. The Addons page
- 4.5. Install Addons
- 4.6. Restore Purchases / Sync products with iOS

### 5. Moving map

- 5.1. The moving map
- 5.2. Route planning
- 5.3. Map Options menu
- 5.4. Elevation Graph

### 6. Instruments

- 6.1. HSI

### 7. Tools/features

- 7.1. Create an Aircraft profile
- 7.2. Create user waypoints
- 7.3. Geo-referenced Approach Charts
- 7.4. Attach a PDF document to a waypoint
- 7.5. Import/Export GPX files (Routes)

### 8. Xample Services

- 8.1. The User Account
- 8.2. Sync devices with the User Account
- 8.3. Live tracking service

### 9. External devices

- 9.1. Use Air Nav Pro with an external GPS device

### 10. Getting support

- 10.1. Send diagnostic
- 10.2. Contact us

## 1. Introduction

Thank you for your interest in Air Navigation Pro. Air Navigation was firstly developed for Apple devices running under iOS operating system versions 4 or higher. It was developed with General Aviation in mind, however it was quickly adopted by pilots of various flying vehicles including, for example: paragliders, gliders, ultra light, single or multiengine airplanes, helicopters and even hot air balloons.

After having good impact on users from different parts of the world, we decided to take Air Navigation to the Android platform.

Our goal is to implement as many tools and features as the Apple version offers, by releasing regularly updates month by month.

Air Navigation is an affordable, yet powerful flight planning and real-time navigation application. We hope you will enjoy the product as much as we enjoyed working on it.

### 1.1. About this document

This document is intended to show the user all the existing tools and features Air Navigation Pro comes with and assist on how to use them.

This document might not be complete, since we release a new update very often, which means that the version of the application may be higher than the one appearing on the first page.

### 1.2. Minimum requirements

Air Navigation Pro will run on:

- A mobile or a tablet running

**Android operating system version 2.3 or higher.**

- **200 MB** of

**available space for the application** and database.

- approximately **350 MB** of

**available space for each chart** of the size of a country like France or Germany.

- A **GPS module** is mandatory for real-time navigation.

If the device does not bring an internal one, then an external GPS gadget will be required. We can recommend the XGPS Garmin GLO.



## 1.3.Disclaimer

Before using this software, you must read and agree with the following terms and conditions.

This software is not intended to replace a certified navigation device! We do not guarantee the accuracy and comprehensiveness of the information provided. The embedded navigation database is provided for informational purpose only. It may not be complete and may contain erroneous data.

You should always use official aeronautical documentation (AIP) when preparing and performing a flight. You should always use certified navigation devices when performing a flight. This software is provided 'as-is', without any express or implied warranty. In no event will the authors or third party data providers be held liable for any damages arising from the use of this software

**YOUR USE OF THIS REAL TIME ROUTE GUIDANCE APPLICATION IS AT YOUR SOLE RISK. LOCATION DATA MAY NOT BE ACCURATE.**

## 2. User Interface

### 2.1. Air Navigation Pro on a TABLET

On a tablet the screen is divided to display the selected route and the HSI instrument. The moving map is on the right side together with the data bar at the bottom.

Air Navigation Pro can be set to full-screen and, in this case, the route and the HSI will be hidden.

Other modules, functionalities and settings can be accessed from the top toolbar.

The following screenshot shows the different parts described above:

#### References:

1. Toolbar
2. Moving map
3. Data bar
4. Elevation Graph
5. Route module
6. HSI instrument



## 2.2. Air Navigation Pro on a MOBILE

On a mobile, one module can be displayed at a time. By default, the moving map is displayed at launch time. Other modules can be displayed by pressing the corresponding tab buttons at the bottom of the screen.

The toolbar is hidden by default and you must press the «screwdriver» button on the upper-left side to display it.

Other settings can be accessed in the «**Config**» tab in the bottom-right corner.

The following screenshot shows the different parts described above:



## 2.3. Buttons in the toolbar



On a mobile, this button toggles the moving map data bar visibility on/off. On a tablet, this button toggles between **Split-screen** and **Full-screen** mode. The split screen shows the HSI instrument and the Route module on the left side of the screen.



«**Map options**» displays the **Map Settings**, where you can configure what will be displayed on the map and how. You will find options to configure the Airspace format, filter waypoints, enable/disable the Elevation Graph and more.



Toggles between Flight mode and **Edit mode**. When Edit mode is turned on, a yellow-black bar at the top of the screen indicates it is active. It is possible to tap waypoints on the map to add/remove them to/from a current route and also press and drag a leg up to a waypoint to include it in the created route as well.



Displays the waypoint database where it is possible to **Search** for a particular waypoint or list nearby waypoints, sorted by distance. The search can be done by Airport name, city name, ICAO code, or directly by accessing to the list of countries.



Displays the list of **stored Routes**. Tapping on a route from the list will set this route as current, displaying the legs in the «**Route module**» and displaying the route in the moving map.



Selects the **Nearest Airfield** from your current location as a direct-to-waypoint.



**Eliminates** the Route from the Map in order to fly freely without following any legs. It also **Hides** the Approach Charts from the Map as well.



The «**Document Browser**» allows the user to create an **Aircraft profile** to use with Air Nav Pro. On a mobile, this tool is reachable from the «Config» tab at the bottom right corner.



Displays the **Tools** list where you can find additional utilities. On a mobile, the tools are reachable from the «Config» tab at the bottom right corner.



«**Config**» button displays the application behavior and customize units and other **Settings**. On a mobile, the settings are reachable from the «Config» tab at the bottom-right corner.

## 3. Setup

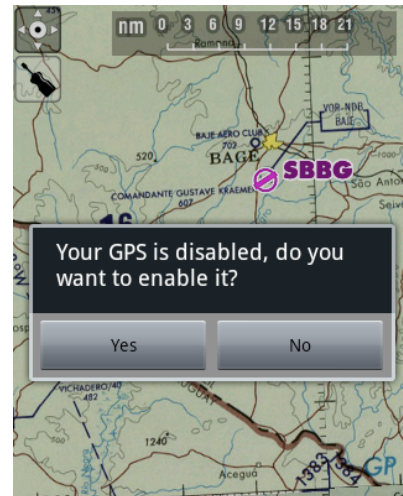
### 3.1. Getting started

After installation of the application, on every launch, the system will ask to **activate the GPS antenna** in case it is not.

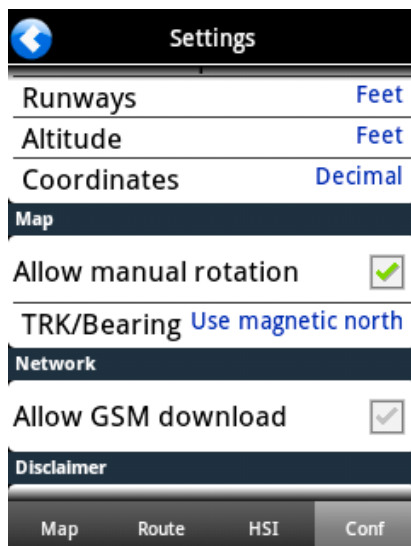
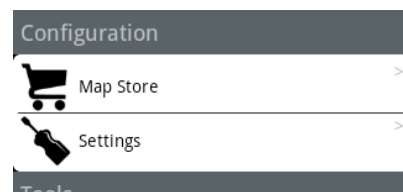


You should **allow GPS access** to Air Navigation, otherwise realtime navigation functionalities will not work properly.

After launching Air Navigation Pro for the first time, the map should be centered to your current location. The application has an internal waypoints database and you should see waypoints in the vicinity on the map.



Please note that **NO MAP background is installed with the application**. You can install a map background from various free of charge or commercial sources from the «MapStore» module located in the «Configuration» button on a tablet and in the «Config» tab on a mobile. You can find more information on how to install maps/charts in the next chapter.



Should you wish to change length, speed or altitude **UNITS**, you can do it from the «Settings» panel.

You can also enable/disable the option for map rotation, use **magnetic or true north** for track and bearing and in if you are not connected to a wifi network, but you wish to download a map through GSM, you are able to do it by activating the option.

In this panel, you will also be able to configure the **type of Approach Chart you will use (VFR or IFR)** on the moving map.



## 4. Installation

### 4.1. Maps and charts

Commercial charts screenshots: [http:// www.facebook.com/AirNavShots](http://www.facebook.com/AirNavShots)

Different type of products can be installed to be used as the background image of the moving map module, as additional information displayed on the map or to use with the 3D module and the Elevation Graph:

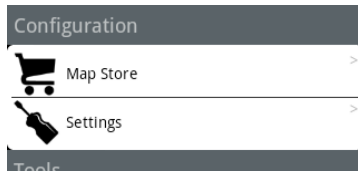
- ▶ Free-of-charge maps 1:250k  
(from the Domain OpenStreetMaps)
- ▶ Charts from the public domain  
(ONC 1:1000k and other VFR charts)
- ▶ Paid charts  
(ICAO/Official VFR charts & non-official)
- ▶ Geo-referenced Approach Charts
- ▶ Free Elevation data

These products are stored in the iPhone/iPad's memory and **do not require an internet connection while flying.**

There are two ways of getting the charts/data:

- ➡ **«Map Store»** module,
  - Free-of-charge maps
  - Public domain charts
  - ICAO/VFR paid charts
  - Free Elevation data
- ➡ **«Addons»** page at Xample Services,
  - Geo-referenced Approach Charts

## 4.2. The Map Store



To browse the available maps/charts catalog, choose «**MapStore**» from the «Configuration» menu (top-right button) on a tablet or from the «Config» tab on a mobile. The «Map Store» module has 4 parts:

### Installed Products

It displays a list of maps and charts installed on your device. **Re-install** or **Delete** a whole product or just parts of it.

### All my products

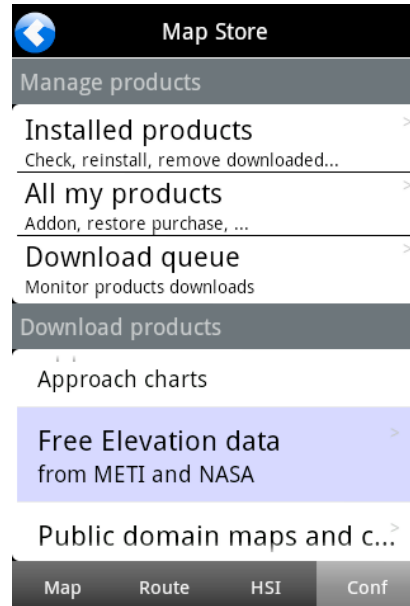
Inside this part, you will **RESTORE** purchased maps and charts and **SYNC** them with up to three Android or iOS devices.

### Download queue

Current and pending downloads will show here. It is possible to cancel a download in progress.

### Download products

The catalog will show up in this part and you will choose which maps or charts you will install.

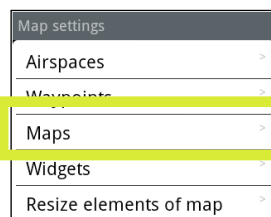


Before attempting to download a map you should check that:

- the tablet/mobile is connected to a functional Wifi network.
- **bluetooth is turned OFF**, as it can disturb the Wifi network.
- there is **enough space** on the tablet/mobile sdcard or internal disc.

Installed products appear in different colors according to:

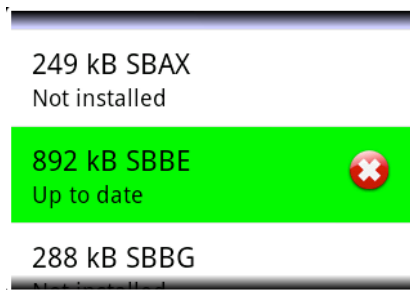
- **White** : maps are not installed;
- **Green** : maps are installed and up to date;
- **Orange** : new version available for download.



After a map or chart has been installed, you will be able to manage it from the «Map Options» module.

Other products such as the Free Elevation data and the Geo-referenced approach

charts will not show under «Map Options», but only under the «Installed products» part in the Map Store module.



## 4.3. Install products in other devices

Maps, charts, free subscriptions and other purchases can be installed in more than 1 device according to the following conditions:

► *Using your Google Play account*

These products are purchased from the Map Store module within Air Nav Pro.

You will check in the Play Store terms and conditions to learn in up to how many Android devices you can install the in-app purchases on a same account (normally you will be able to install them in up to three to five devices).

In order to install your products in a different device, read the [chapter “Restore purchases”](#).

► *Using your Xample Services account*

These products are purchased from the Addons page.

You will be able to **install the products in up to three different Android or iOS devices**.

This does not mean that you are allowed to install them on three Android devices + three iOS devices, but in up to a total of three (example: 2 Android + 1 iOS).

In order to install your products in a different device, read the [chapter “Install Addons”](#).

**Note:** remember that the Xample Services Account is not the same as the Google Play account. For more info, read [chapter «The User Account»](#).



## 4.4. The Addons page

The Addons page will let the users:

- See ALL their purchases, subscriptions and the products sync with their devices;
- Purchase products such as yearly subscriptions to approach charts;
- Subscribe to free database packages such as waypoints and airspaces databases;
- Renew subscriptions.

The Addons page will be accessible under «Services» menu from the Xample Services Website. You will have to first login with your **Xample Services User Account**, on <http://services.xample.ch>. If you don't have a Xample Services User Account, read chapter «The User Account».



You will show three separated lists:

### My Addons

It will **show all your purchases**, subscriptions and the products that you sync from your iOS/Android devices.

**Note:** a user can sync up to a total of three devices with the same Xample Services account, no matter they are Android or iOS nature. *Example:* the User Account *svecchio* is sync with an iPhone, an iPad and an Android mobile.

### Paid Addons

It will offer **products to buy** and use with Air Navigation Pro.

### Free Addons

It will give you the possibility to **subscribe for free** to the database updates for both waypoints and airspaces.

#### My Addons

Name	Status	Expiration date
Argentina - Elevation	Ready	Never
Free airspaces database	Ready	Nov. 23, 2014, 3:43 p.m.
Free worldwide waypoints database	Ready	Nov. 23, 2013, 3:42 p.m.
Argentina ONC 1000k	Ready	Never

#### Paid Addons

**Germany - Georeferenced Visual approach charts**  
 subscription  
 0.05€

**Brazil - visual**  
 subscrip  
 0.05€

**Georeferenced visual approach charts**  
 subscription  
 0.05€

**Aviopc guide**  
 subscrip  
 0.05€

#### Free Addons

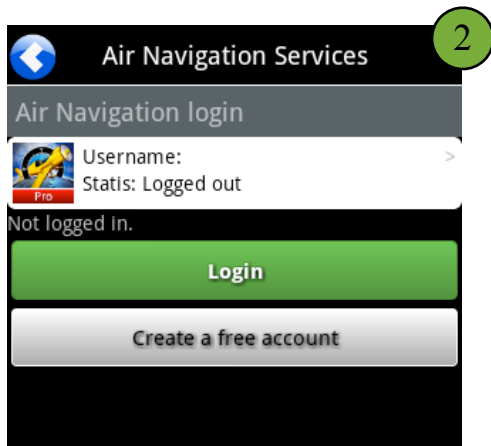
**Free worldwide waypoints database**  
 subscription  
 free

**Free ai**  
 subscrip  
 free

## 4.5. Install Addons

Once you have made a purchase through the Addons page, you will proceed as follows:

- ➔ Run Air Nav Pro on your Tablet/mobile;
- ➔ **Login** with your User Account info under «Air Navigation Services» panel;



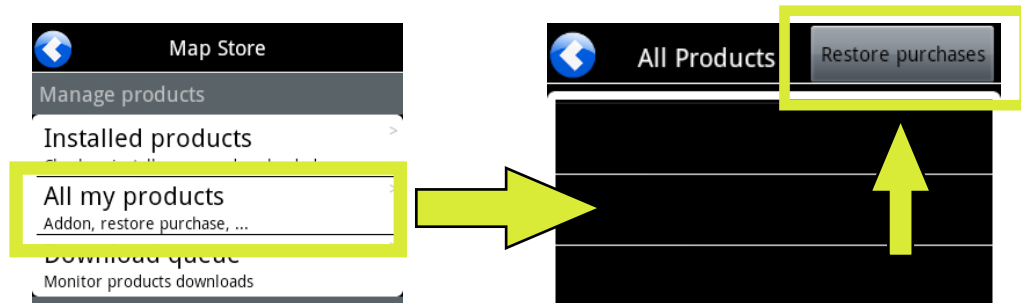
- ➔ Open the «Map Store» module and go to the «All my products» part;
- ➔ Press on **Restore purchases** button and wait for the purchases to show in the list;
- ➔ Press on the product to install it.





**Note:** remember that the Xample Services Account is not the same as the Google Play account. For more info, read [chapter «The User Account»](#).

## 4.6. Restore purchases / Sync products with iOS

The «**Restore purchases**» button is located at the top-right corner of the «All my products» part in the «MapStore» module.



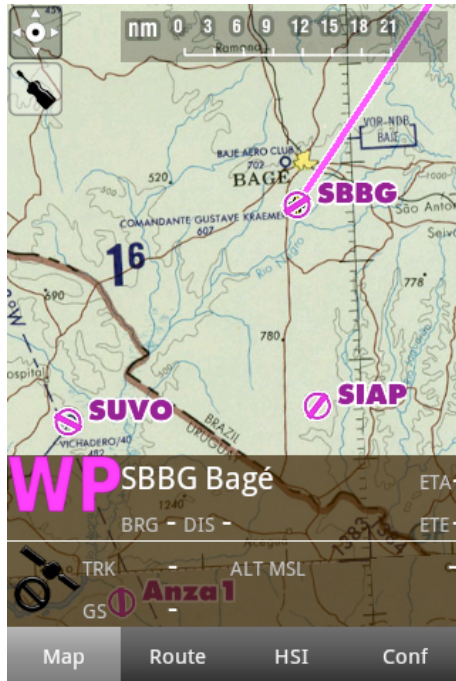
You will use this button in the following situations:

- ▶ Re-install purchased maps on your device or devices;  
 You must use the **same Google Play account** that you purchased the charts with.
- ▶ Install purchases made on the Addons page;  
(read [previous page](#) to see learn how)
- ▶ Synchronize maps and charts with other Android or iOS devices.  
(you will proceed the same as on [previous page](#))  
 Before sync any products with a new device, you will have to first sync them with your previous device. Always using the same Xample Services User Account.

**Note:** remember that the Xample Services Account is not the same as the Google Play account. For more info, read [chapter «The User Account»](#).

## 5. Moving Map

### 5.1. The moving map



The moving map is the main instrument of Air Navigation Pro. It is used for real-time navigation as well as for **route planning** or to create of user waypoints.

You can **Create a Route** directly from the moving map. It is possible to add intermediate waypoints to your current route during a flight (to avoid bad weather conditions for example).

By default, the moving map is centered on your current location, north-oriented. By pressing on the symbol in the top-left corner, you can toggle between :



**North-oriented**, current location in the center of the screen, moving.



**Track-oriented**, current location rotating to match current track, moving.



**Panned mode**. Touching and moving the map will switch to **panned mode**. In this case the map will be moved to the location

of your choice, north-oriented or pointing to any direction in case you have the option for map rotation enabled in the Settings. It will not move to follow your current location, instead, the aircraft symbol will move on the map, possibly leaving the screen area.

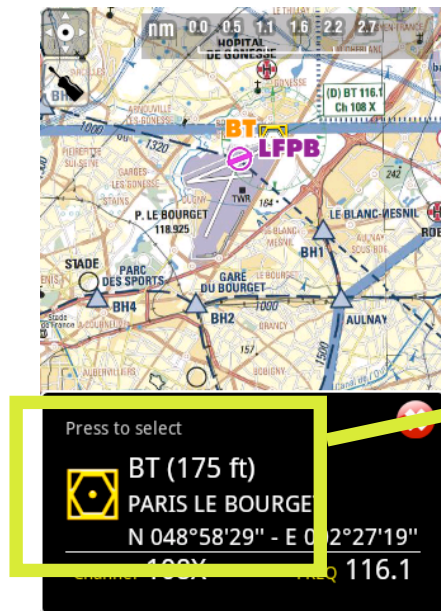
You can center the map again and restore map movements by pressing once on the symbol in the top-left corner.

**Touching an area of interest** on the map will reveal a popup window with useful information. Touchable or interactive items are:

**Waypoints:** ID code, elevation, full name, latitude, longitude, frequency (Nav aids), runway and contact frequency info (Airports), geo-referenced app charts.

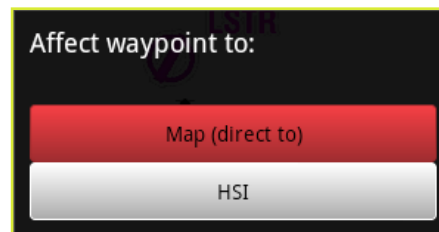
**Airspace:** lower and upper limits, name, class and additional information. These airspaces are displayed on the map in different colors depending on their class.



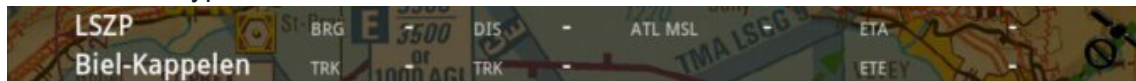


You can press on any of the waypoints in the map to **assign it to the HSI instrument** or to select it as your destination, by pressing where it says:

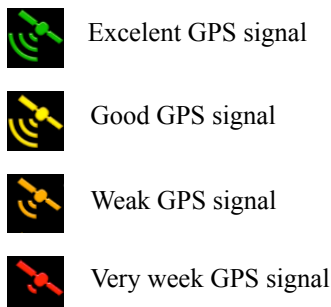
**Press to select**



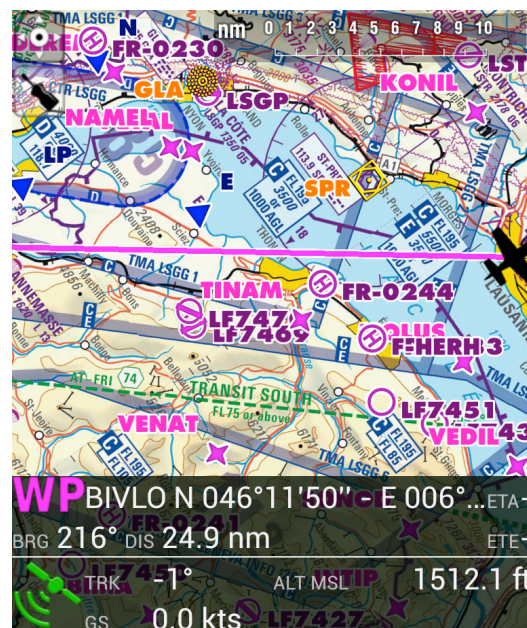
The data bar at the bottom of the moving map will display **real-time information**. From left to right: ID and name of next waypoint; bearing, track and distance of next waypoint; groundspeed and altitude as reported by the GPS signal, and estimated time to the next waypoint.



The data bar also shows a GPS signal symbol as follows:



For real time navigation, the quality of the GPS signal is required to be a **green or yellow** symbol. A red or orange symbol will only show an approximate location and will not report speed nor track information. For better results, you should place your device near a window, with a direct view of the sky. If you are flying with a full-metal airplane or your airplane is equipped with anti-ice windshield, the internal GPS of your tablet/mobile may be a bit weak and you may need an external GPS device to assist it.





## 5.2. Route Planning

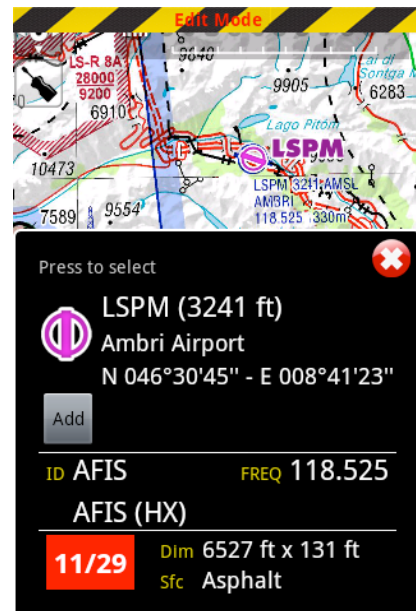


By default, the moving map is in «Flight mode». You can toggle the moving map from «Flight mode» to **«EDIT MODE»** at any time to create or amend a route by pressing on the «Edit» button in the Toolbar.



To create a route:

- Toggle to «edit mode», a yellow-and-black striped bar should appear at the top of the moving map. A search field will also appear on top of the «Route module».
- To **Add waypoints** to your route, press on waypoints of your choice on the moving map. In the waypoint popup, press on the **«add»** option. A yellow star should now appear on the moving map and your waypoint should be in the «Route» list.
- Alternatively, you can input one or more waypoint identifiers in the **«search»** field on top of the «Route module» and press on “search”. Multiple identifiers must be separated by a space:

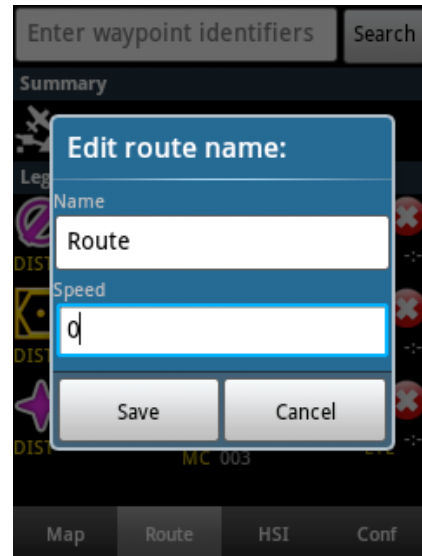
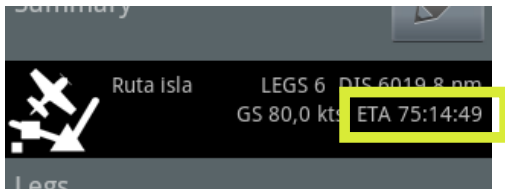


In edit mode it is also possible to **remove waypoints** from the list in the «Route module». Alternatively, you can remove a waypoint by pressing on the map and choose the «remove» option.

It is possible to insert a waypoint by **pressing on, holding and dragging** the magenta vector (leg) and moving to a new location on the map. As a result, a new waypoint will be inserted in the «Route». If the location on the map is not over an existing waypoint, a «temporary» waypoint will be created named “user waypoint”.



In the «Route module», you can press on the «**Summary**» line at the top of the list to write the **route name and cruise speed**. The route name is used to identify a particular route in the «Routes list» when they are saved. Cruise speed information will be used to display **ETA** on top of the list.

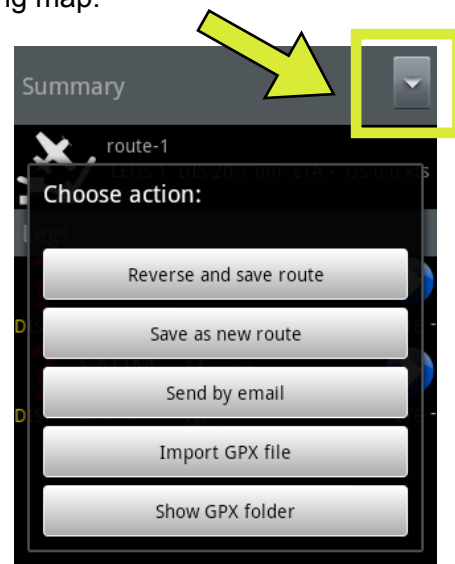
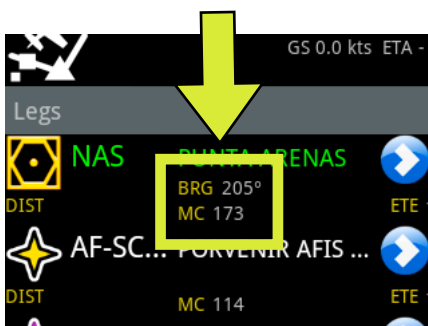


When you are satisfied with your route, you can toggle back to «Flight mode», and the route will be automatically stored in the «Routes list» (see screenshot on the left).

On the left-side screenshot you can see 3 routes stored as an example. By selecting any of them from this module, Air Navigation Pro will take it as the current route on the moving map.

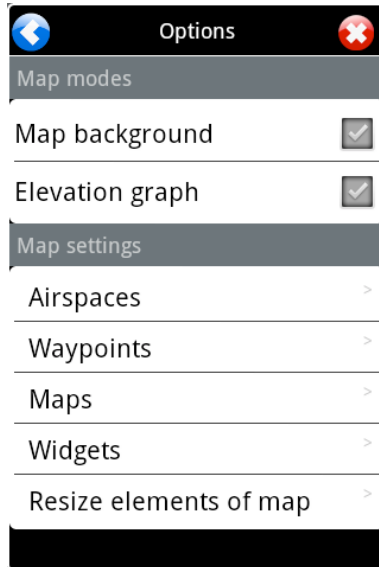
In order to **Reverse** the Route, you should press on the upper-right button of the «Route module» as shown on the screenshot.

You will also have the options to save the current Route as a new one, **send it by e-mail** and also to **import a GPX file** as a new route.



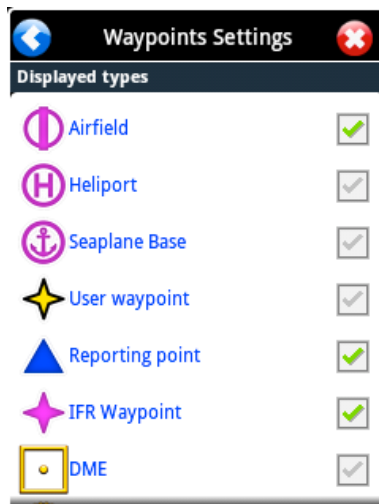
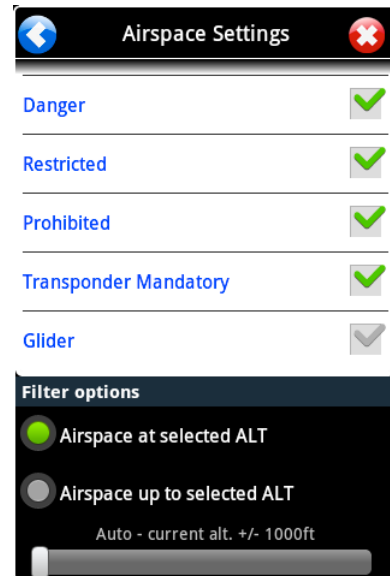
When switching back to «Flight mode», you will show on the **next** waypoint of the list the **bearing** (BRG) and **magnetic course** from your current position.

## 5.3. Map Options menu



From the Toolbar press on the «**Map Options**» button to access various options for the moving map.

**Airspace:** You can show or hide the different class of interactive airspaces on the map and you can also filter them by “altitude”.



**Waypoints:** You can show or hide different kind of waypoints (Airfield, Heliport, IFR, VFR, NDB, VOR, TACAN, etc).

Also, you have an option at the bottom of the panel that allows to filter by an airfield’s runway’s surface.



**Maps:** You can show or hide a downloaded map or move it above or below to make it visible in case of overlaying with another one.



**Widgets:**

*Bearing line*, it will draw a line pointing to the next waypoint selected on the map.

*Extended track line*, it is the front line from your current position showing ETE of 2, 5 and 10 minutes away.

*Vector label*, shows the course and distance to the next waypoint.

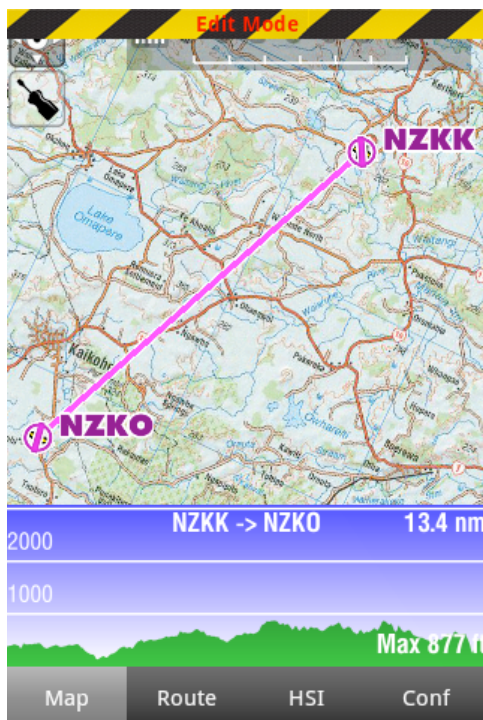
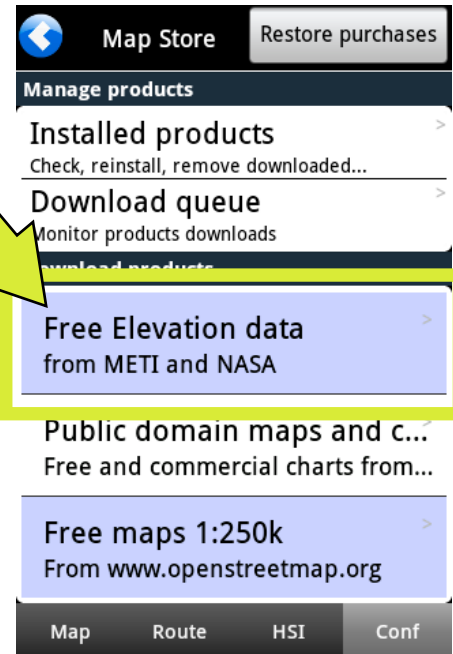
*Runway identifier*, shows runway extensions for destination waypoint of a route.



## 5.4. Elevation Graph (terrain profile)

From the «Map Options» menu, you can turn on the Elevation Graph. If elevation data is installed for your region, the elevation graph will display terrain information. Note that you will show data information **ONLY** after downloading «Free Elevation data» files from the Map Store.

In «Flight mode», the Elevation Graph will display the terrain in front of the aircraft, updating the view every 5 seconds. The **maximum reported altitude** of the total distance of terrain profile in front of us will be displayed in the Graph. We can **zoom in or zoom out** by using two fingers to see less or more terrain. The scale is displayed in NM. A symbol representing your aircraft will show in the view with a red dashed line, representing your current altitude, as reported by the GPS.



In «Edit mode», the Elevation Graph will display the terrain **between the two waypoints** of the selected leg. On the screenshot beside, the terrain profile is displayed for the leg NZKK-NZKO with a total distance of 13.4 NM. This is very useful when planning your route, to get an estimate of the minimum safe altitude.

**Note:** Please note that even with a good GPS signal, the altitude as reported by the GPS may have an accuracy of +/- 200 ft. Elevation database may also contain some inaccuracies. You should always plan your flight with a reasonable margin over the obstacles.

## 6. Instruments

Using a GPS signal Air Navigation Pro can simulate an HSI instrument. Unlike real-navigation instruments, the virtual instruments can be set-to-point to any waypoint in the database (airport, VOR/DME, user waypoint, etc).

### 6.1. HSI



The HSI is the most practical of all traditional nav instruments but it also requires some training before it can be used efficiently.

If the GPS reception is bad the warning flag will show that the instrument does not display correct data.

The top part of the screen is an emulated HSI (Horizontal situation indicator). The yellow needle is the Course select pointer, the moving part in the middle is the Course deviation indicator (CDI) which displays the deviation (+/- 12 degrees) from the selected radial or course to or from the selected waypoint. Unlike on a real HSI where the orange Heading bug is used to set a course for the autopilot, the heading bug displays the bearing to the selected waypoint. Also the HSI **does not display magnetic heading but the track of the aircraft**.

The advantage of the HSI is that it displays the position of the aircraft symbol in the middle relative to the selected course. The compass card will rotate automatically to match the current flying track. Radial or course selection is done by touch and swipe gesture up or down on the left or right of the compass ring.



A “NAV” warning flag (as shown in the image above) will let you know that you should Not trust the HSI indicator in the following cases:

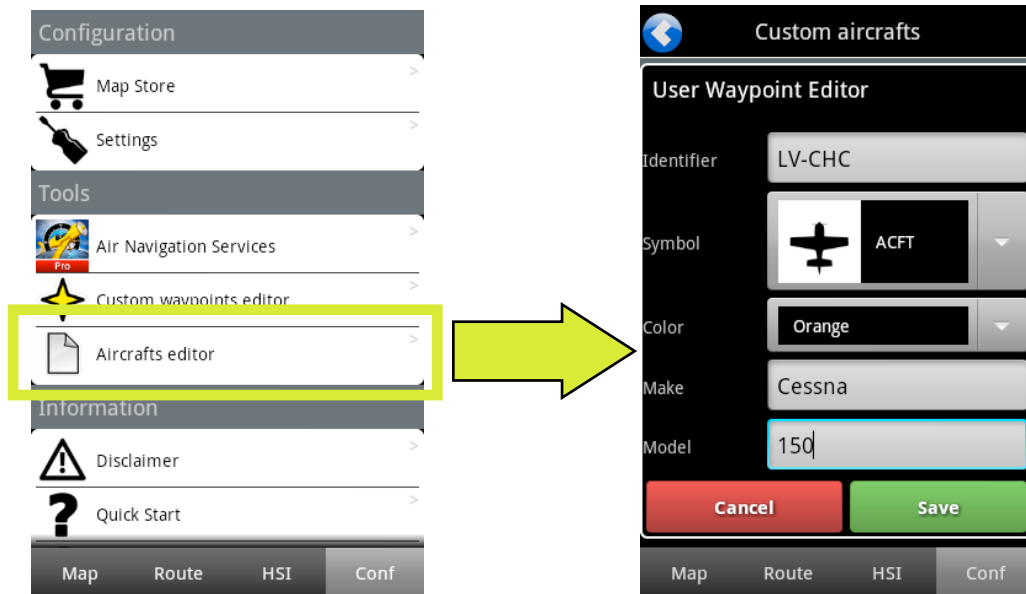
- No waypoint is selected for the instrument;
- the waypoint distance is over 250 nautical miles;
- the GPS accuracy is bad;
- Groundspeed is less than 5 Kts.

Below the main indicator, the selected waypoint is displayed as well as the distance from the waypoint (great circle distance). You can use any kind of waypoint (Airports, VOR, NDB, etc) with the HSI instrument. (A real HSI indicator requires radio signals from VOR, VOR/DME or VORTAC transmitters).

## 7. Tools/features

### 7.1. Create an Aircraft profile

If you wish to create an aircraft profile, you should do it through the «**Tools**» menu, in the module «**Aircraft Editor**»



## 7.2. Create User Waypoints

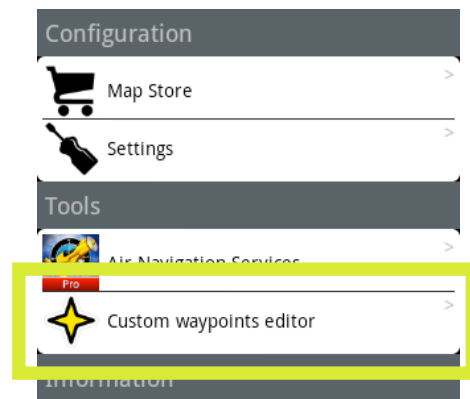


The 'User Waypoint Editor' dialog box contains the following fields and controls:

- Identifier: A text input field.
- Name: A text input field.
- Type: A dropdown menu currently set to 'Airfield' with a corresponding icon.
- Country: A dropdown menu currently set to 'United States'.
- Latitude: A text input field showing 'S 034°51'50"'. Below it is a 'Longitude' field showing 'W 058°18'26"'. Below that is an 'Elevation' field.
- Buttons: A red 'Cancel' button and a green 'Save' button at the bottom.

A «user waypoint» can be created as follows:

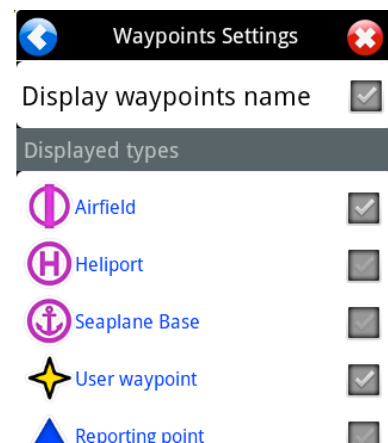
- ➔ directly on the «moving map» by **pressing and holding for 2 seconds** on the desired location of the map.
- ➔ from the «**Custom waypoint Editor**» under Tools menu.



Once you have created your waypoint, it should appear on the map. Example below.



If your waypoint does NOT appear on the map, then check that the type of waypoint you created is selected in «Map Options».



## 7.3. Geo-referenced Approach Charts

Air Navigation Pro supports geo-referenced approach charts that can be opened directly over the map.

We offer a **1-year-subscription package** that includes:

- ▶ Geo-referenced Approach Charts to be used on the map
- ▶ Approach Charts PDF documents (with additional info)
- ▶ Regular updates according to the Amendment cycles

In order to purchase a subscription, you should read the chapter "Installation".

The Approach Chart **package brings**:

- Geo-referenced approach chart  
(it will be opened on the map)
- Chart PDF Document  
(it has additional info to complement the approach chart)



Both can be **opened** by **selecting a waypoint** on the map.

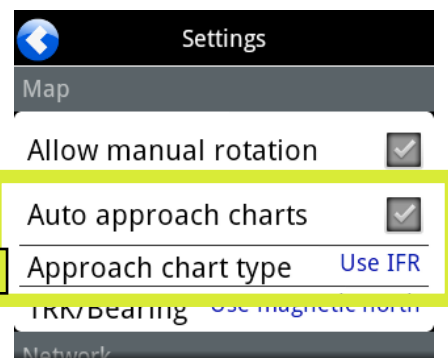
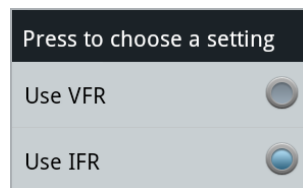
As an example, we selected the waypoint SKBG from the moving map. The files from the top are the PDF documents, while the files at the bottom are the geo-referenced approach charts classified by IFR or VFR (instrumental or visual).



We will set the **class of the approach(VFR/IFR)** chart we want to use in the Settings panel, where the user can also enable or disable the option «Auto approach chart». When enabled, the geo-referenced approach charts will be **opened on the map automatically** by Air Nav Pro for the destination waypoint.

Example: if I create a Route: SKBG - SKBO - SAEZ.

If we have downloaded the approach charts for SAEZ, then an approach chart will pop up on the map when SAEZ is our next selected waypoint.



In order to **hide the approach chart** you should use the RED icon from the toolbar.

## 7.4. Attach a PDF document to a waypoint

A PDF document can be attached to **ANY** waypoint from the database.

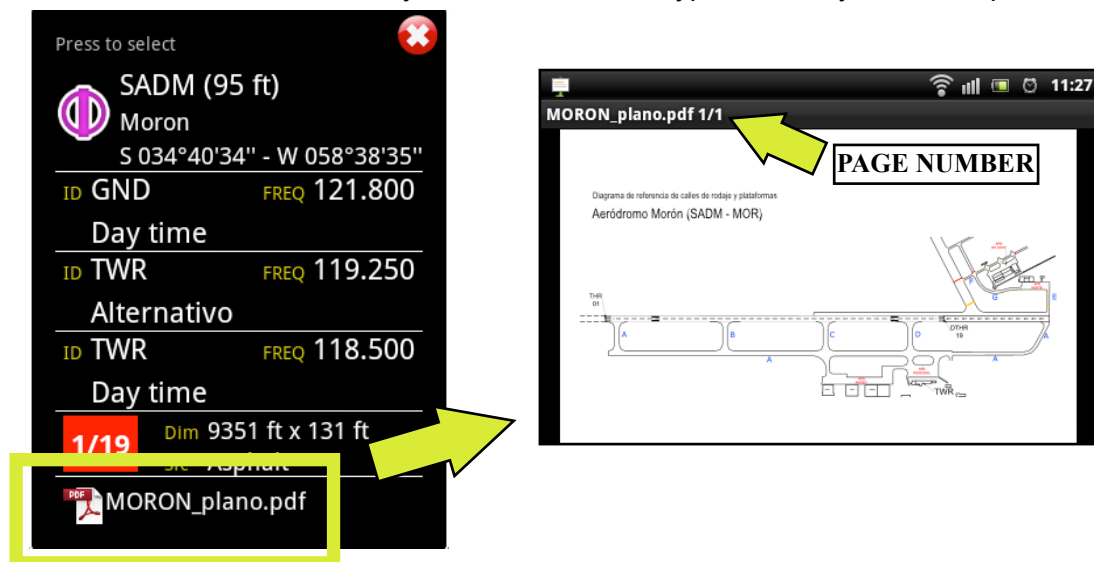
The purpose for this can be one of the followings:

- Add an Aerodrome chart diagram to an Airfield from the map
- Add a PDF sheet to correct/complement any waypoint's data
- Add a PDF sheet with additional information such as:
  - contact frequency
  - approach instructions
  - info about the place
  - photos to recognize the area
  - etc

The procedure to **ATTACH a PDF** document to a waypoint is as follows:

- ➡ Create a folder in the /sdcard/ folder of the Android device:  
(for devices with NO sdcard on it, you will create them in the root folder)  
create /AirNavPro
- ➡ Create another folder inside /AirNavPro/  
create /user\_app\_charts
- ➡ Create a folder with the ID of the waypoint inside /user\_app\_charts/  
Example 1: I have a PDF document for SADM  
then we will create /SADM  
Example 2: I have a PDF document for "la colorada"  
then we will create /la colorada
- ➡ Copy the PDF document inside the ID folder  
Example 1: we should have have  
/sdcard/AirNavPro/user\_app\_charts/SADM/document.PDF

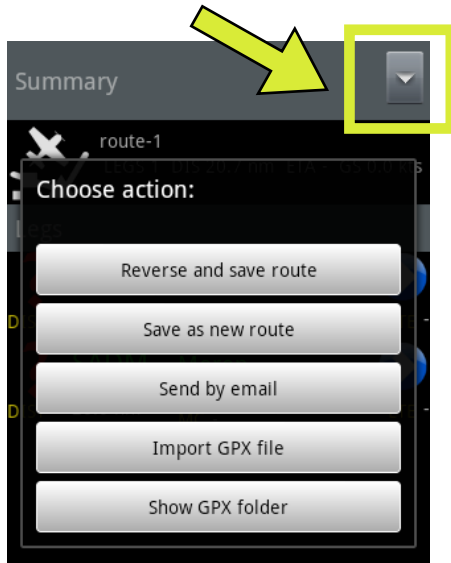
To **OPEN the PDF** document, you will select the waypoint directly on the map.





## 7.5.Import/Export GPX files (Routes)

A **Route in GPX format** can be imported or exported from Air Navigation Pro.



In order to **Export a Route**, you should press on the upper-right button located in the «Route Module» panel, then select the option “**Send by email**”.



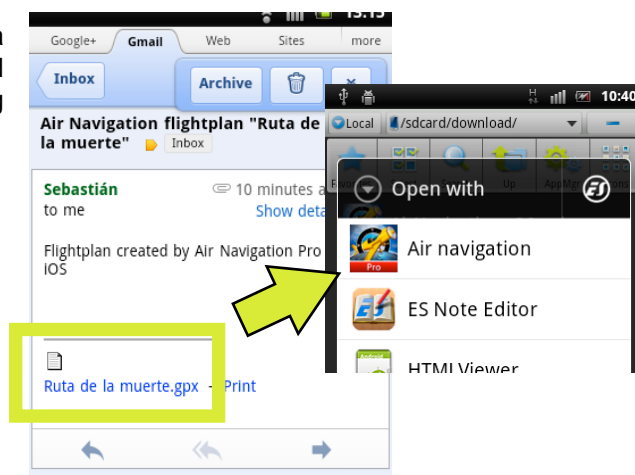
You must first have an Email account configured on your device.

In order to **Import a Route**, you have 3 alternatives:

- ▶ Copy the GPX files directly into the folder advised by the button “Show GPX folder”. This folder will have all the Routes appearing in Air Nav Pro.
- ▶ Select “**Import GPX file**”, then you search for the GPX file and open it.
- ▶ Use the “**Open with**” feature from outside Air Nav Pro.



**Note:** As an alternative, you can send a GPX file (Route) to your Email box and then open it directly on your device using the feature “Open with”.

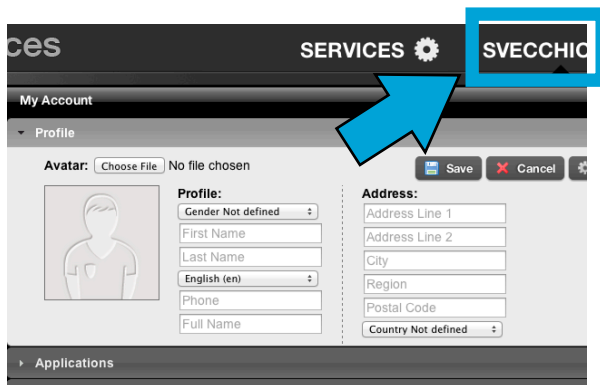


## 8. Xample Services

### 8.1. The User Account

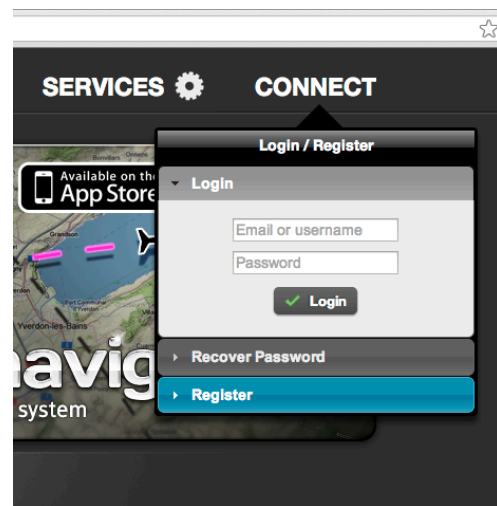
Xample introduces access to new online services. Users can **create a Free account** on our server giving access to various services:

- ▶ **Sync** purchases with **Air Nav Pro iOS**
- ▶ Check your products (Maps, charts, waypoints and airspaces)
- ▶ Flights: Live Tracking System (Sync/Visualize, **share your flights in real-time**)
- ▶ Share flights with friends and family
- ▶ Share flights on Facebook
- ▶ Easy-to-use interface
- ▶ Several base layers (Google, Bing and OpenStreetMap maps)



How to create an account ?

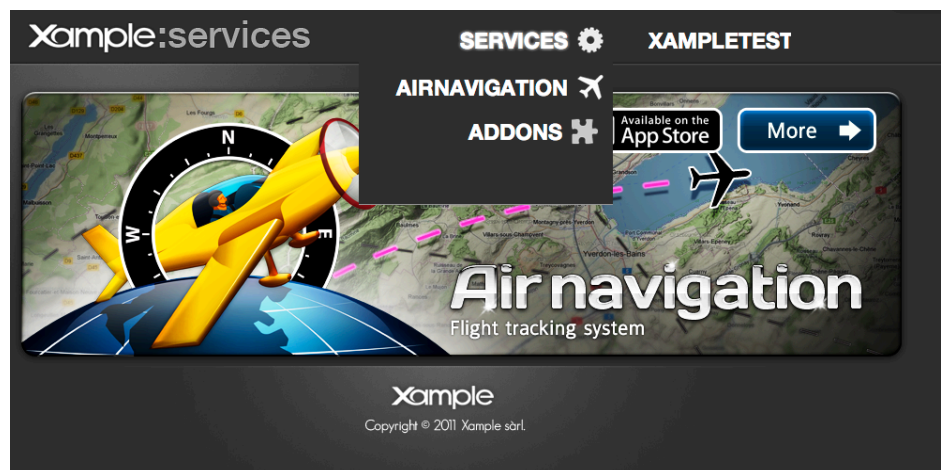
- ➔ Go to <http://services.xample.ch>
- ➔ Register your Email Address;
- ➔ Check you Email inbox and click on the link to **finish registration**;
- ➔ Make sure you are connected.



Each User Account can be configured by "clicking" on the user's nickname at the upper-right corner of the top bar. (see image on the left)

The User Account offers access to:

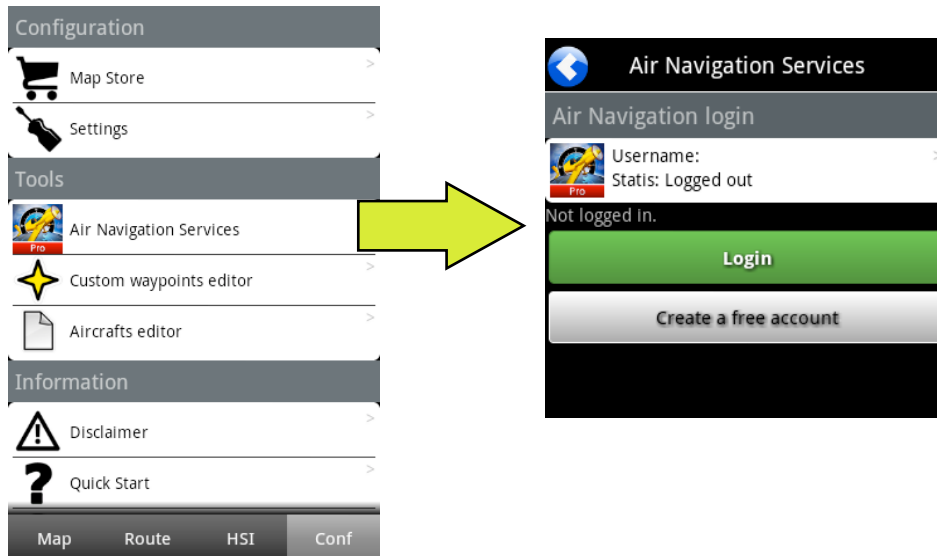
- AirNavigation (live tracking)
- Addons





## 8.2. Sync devices with the User Account

In order to sync an Android device with a User Account, you will just have to **Log in** with you Xample Services account on your device through the «**Air Navigation Services**» module.



**Note:** remember that the Xample Services Account is not the same as the Google Play account. For more info, read on [previous page](#).

The Xample Services account is unique and can be sync with up to a total of **Three devices**. That can include iOS and Android devices (Example: 1 iOS and 2 Android). You can unlink them at any time by doing a log out from Air Navigation Services.

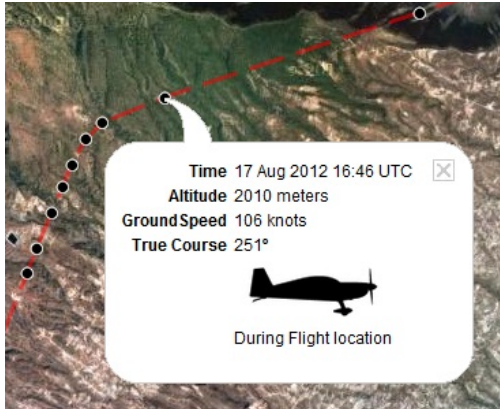
You can also **unlink them forever** (normally this is done when the device is not used any more by the user) by using the «**Revoke**» option. This will take up to two weeks to be processed.



## 8.3. Live tracking service

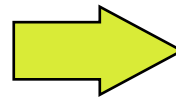
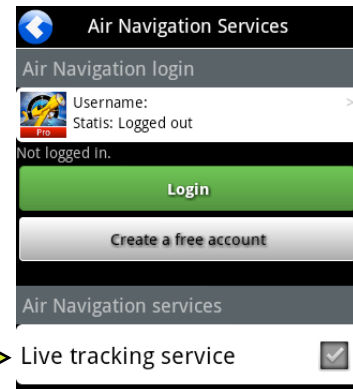
(record a flight online)

The application will send points through the server in **Real time** as the flight performs and at the same time a person connected with your **User Account** will be able to check those points that build the track and has relevant info such as current altitude, heading and time. (see screenshot below)



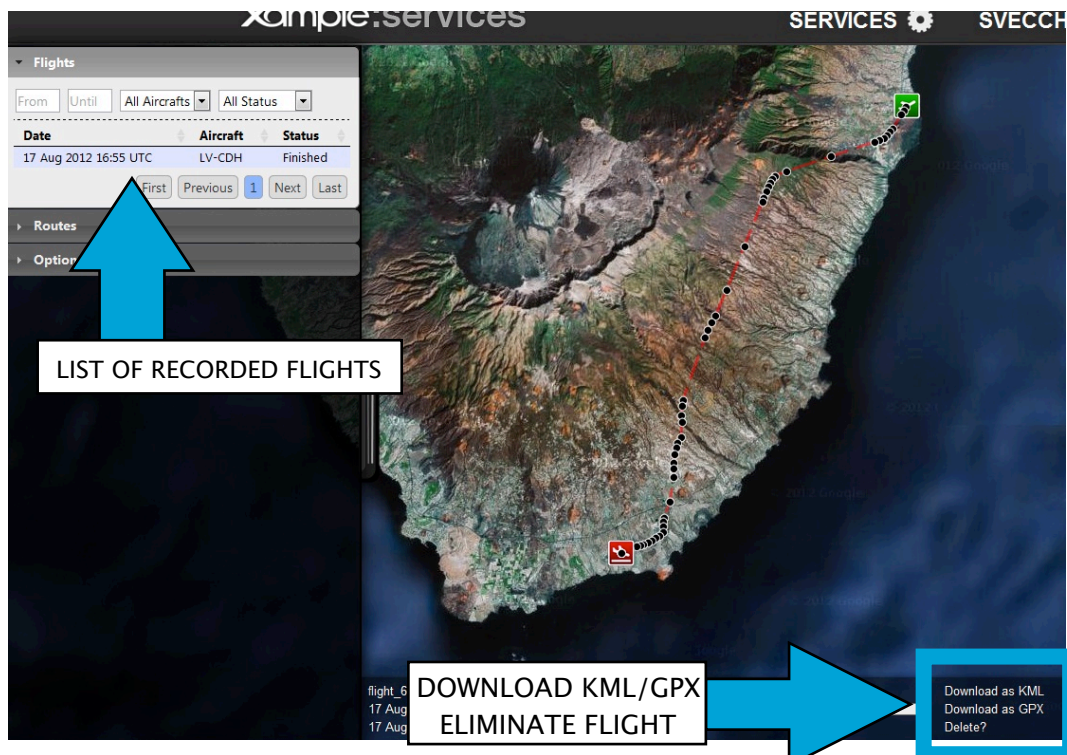
In order to make user of this feature:

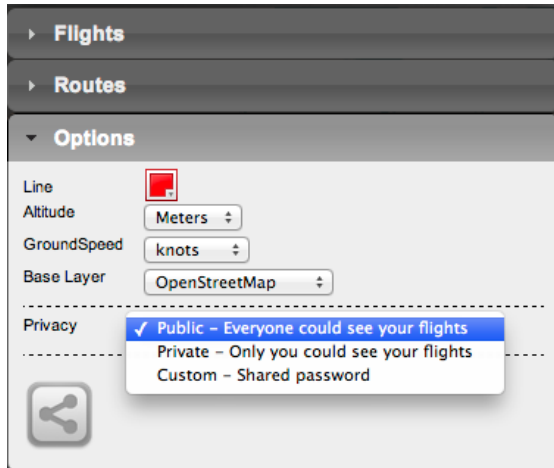
- Log in with your User Account;
- enable «Live tracking service» under «Tools» menu.



**Note:** Flight tracking system will work live as long as GSM network is available.

Each recorded flight will be stored on the left bar in the «AIRNAVIGATION» section of the User Account Website. It can be downloaded as a **KML file** or as a **GPX file** from the right side of the **bottom data bar**. You can also **delete** a flight.





It is possible to keep the flight private or **share it with family or friends** with a password or set it as “public”. This can be configured from the «Options» tab on the left bar (see image on the left).

From this tab, it is also possible to change the units for **altitude** and **speed**, change the color of the track line and even switching to a bunch of **varied map backgrounds**.

## 9. External devices

### 9.1. Use Air Nav Pro with an external GPS device

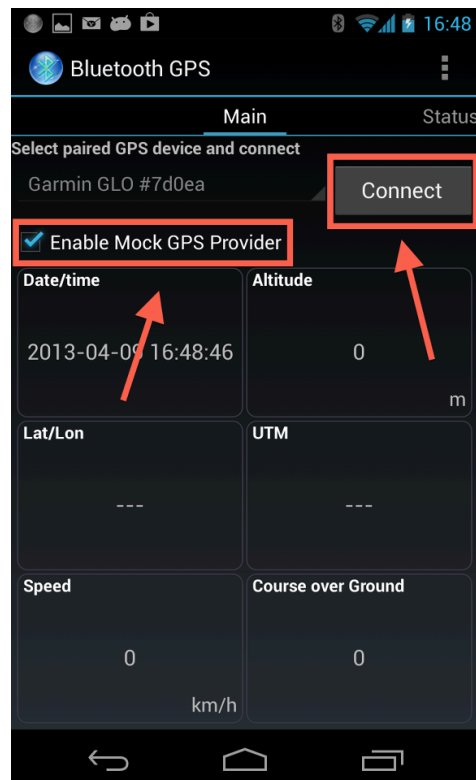
If your ANDROID device does not have an integrated GPS antenna, you can get an external one to use with Air Nav Pro.



The external GPS antenna must be compatible with your Android device.  
An example of a good one is the Garmin GLO external GPS.

In order to use your external GPS device with Air Nav Pro proceed as follows:

- ▶ Disable internal GPS in Android settings (if applicable)
- ▶ Enable bluetooth in Android Settings
- ▶ Pair with the external bluetooth in Android settings
- ▶ Install the application “Bluetooth GPS” :  
<https://play.google.com/store/apps/details?id=googoo.android.btgps>
- ▶ Launch “Bluetooth GPS”
- ▶ Press on «Connect» (see image)
- ▶ Enable «Mock GPS Provider» (see image)
- ▶ Run Air Nav Pro



## 10. Getting Support



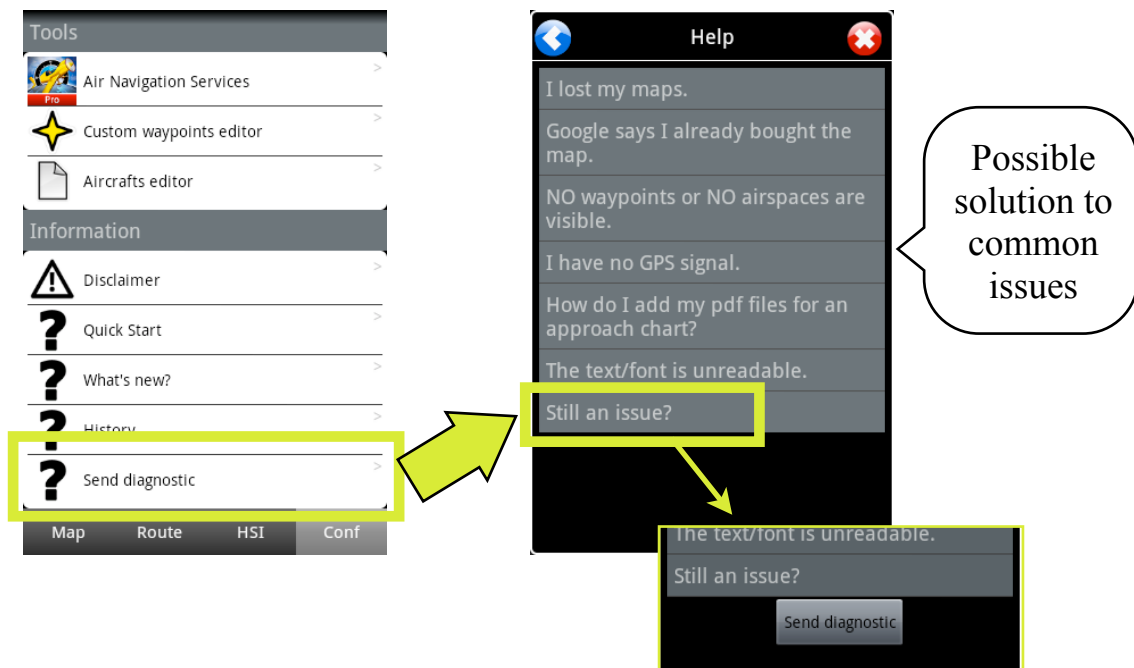
Make sure you have the **Latest** version of Air Nav Pro installed on your device.

### 10.1. Send diagnostic

If you have any issues or you think there's a **Bug** making Air Nav Pro work improperly, you can **send us a diagnostic** from within the app.

This will provide us with important and essential information related to your device's settings, memory and processor that will better help us find a solution.

In order to send us a diagnostic, please follow the steps described:



## 10.2. Contact us

Current user manual is a work in progress, since it will be updated and completed as new features and tools are released.

In the mean time, if you don't find specific information about Air Navigation Pro, you can send us a support request from the «**support**» section of our website:



<http://xample.desk.com/>

We usually answer support requests within a few business days.